



Otay Ranch Transit Planning Study

TASK 7 PHASING AND IMPLEMENTATION PLAN

JANUARY 2008



1. INTRODUCTION

This report provides a summary of the implementation steps necessary to develop the proposed transit service in Otay Ranch. Consideration is paid to the potential long-term nature of implementation, given the current land uses and lack of a built environment for large sections of the project area. Nonetheless, the implementation process can still be laid out for future use, ensuring a smooth development of service concepts, alignment options, and stop locations.

The establishment of transit service in Otay Ranch is dependent upon the development of its land uses to support future transit service, and as development occurs, various actions will be needed to implement the supporting service concepts. The needs of residents in Village 9 will likely be different than those of University students, which will likely themselves differ from employees at the Eastern Urban Center (EUC) or Regional Technology Park. As a result, the specific type of service implemented will depend on the development being implemented.

2. PROPOSED PHASING

Implementation is broken down into three phases to implement the transit improvements in concert with the development of the project area, particularly the EUC, Village 9, and the University Complex. Given the uncertainty of the timeline for the development of the area, it is essential that as development progresses, thought is given to how best implement new facilities and improve existing ones as part of creating a transit-friendly built environment. Three stages of development are proposed: Planning, Design and Construction, and Operations.

- Planning – During this phase, the city would work with local and regional stakeholders such as SANDAG, MTS, and developers to refine the concepts and alignments proposed in this study. The primary objective is to ensure that as roadway alignments are finalized, and preliminary engineering and construction of these roadways is undertaken, adequate right-of-way is set aside for transit usage consistent with the design standards proposed for the particular service type. Transit service alignments and stop locations are also refined and finalized at this stage.
- Design and Construction – In this phase, infrastructure improvements such as the stations, queue jumps, transit signal priority, and transit lanes are designed and constructed. Vehicle procurement gets underway with the development of specifications and bid packages. The operating plan for the services are prepared and finalized.
- Operations - This phase includes the initial operation of the service, followed by ongoing monitoring and alignment and stop refinement to adapt to ridership demand.

Table 1 provides specific actions for each service type, and illustrates the relationship between the transit services and the key Otay Ranch developments served. Each development is color coded to the proposed services. The shaded cells indicate which development(s) would likely result in a level of demand sufficient trigger the operation of the service. The unshaded cell indicate the actions needed to services already in place as a result of a new development.

As an example, the development of the EUC and Village 9 would provide demand for the initiation of the South Bay BRT and the Circulator services. The cells for these services are shaded under EUC and Village 9 to show this cause and effect. Under each service are the Planning, Design and Construction, and Operations actions needed to implement these services. The actions would be under taken in sequence, even though it is not possible at this time to specify the full time line.

Cells without shading show the steps needed to adjust services already operating when new developments are implemented. As an example, when the University Complex or Technology Park comes on line, the actions needed to adjust the South Bay BRT and the Circulator to serve the project are specified.

Table 1- Phasing and Implementation Timeline - Development Considerations by Land Use and Service Type


SERVICE TYPE	SITE DEVELOPMENT & AREAS SERVED			
	Eastern Urban Center (EUC)	Village 9	University Complex	Technology Park
South Bay BRT (SANDAG) 	Planning <ul style="list-style-type: none"> Design Completed 	Planning <ul style="list-style-type: none"> Finalize alignment, and station locations in collaboration with city and developers Identify nature and location of priority treatments 	Planning <ul style="list-style-type: none"> Work with SANDAG, MTS, and developer to identify connecting services needed 	Planning <ul style="list-style-type: none"> Work with SANDAG, MTS, and developer to identify connecting services needed
	Design & Construction <ul style="list-style-type: none"> Develop operating plan Procure vehicles Design and construct stations & priority treatments 	Design & Construction <ul style="list-style-type: none"> Develop operating plan Procure vehicles Design and construct stations & priority treatments 	Design & Construction <ul style="list-style-type: none"> Enhance and/or expand transfer stations as needed Time transfers with Circulator and connecting services 	Design & Construction <ul style="list-style-type: none"> Enhance and/or expand transfer stations as needed Time transfers with Circulator and connecting services
	Operations <ul style="list-style-type: none"> Begin operations when operating funds are secured and budgeted Adjust alignment and schedule as needed to meet demand 	Operations <ul style="list-style-type: none"> Begin operations when operating funds are secured and budgeted Adjust alignment and schedule as needed to meet demand 	Operations <ul style="list-style-type: none"> Monitor operations and modify schedule as needed to meet demand 	Operations <ul style="list-style-type: none"> Monitor operations and modify schedule as needed to meet demand

Figure 1 - Phasing and Implementation Timeline - Development Considerations by Land Use and Service Type (cont.)


SERVICE TYPE	SITE DEVELOPMENT & AREAS SERVED			
	Eastern Urban Center (EUC)	Village 9	University Complex	Technology Park
Local Circulator 	Planning <ul style="list-style-type: none"> Refine and finalize alignment and stops through discussions with SANDAG, MTS, developers Identify nature and location of priority treatments 	Planning <ul style="list-style-type: none"> Refine and finalize alignment and stops through discussions with SANDAG, MTS, developers Identify nature and location of priority treatments 	Planning <ul style="list-style-type: none"> Modify alignment as needed to serve the new development through discussions with SANDAG, MTS, developers Identify new stops 	Planning <ul style="list-style-type: none"> Modify alignment as needed to serve the new development through discussions with SANDAG, MTS, developers Identify new stops
	Design & Construction <ul style="list-style-type: none"> Develop operating plan Procure vehicles Design and construct stations & priority treatments 	Design & Construction <ul style="list-style-type: none"> Develop operating plan Procure vehicles Design and construct stations & priority treatments 	Design & Construction <ul style="list-style-type: none"> Design and construct new stops and priority treatments as needed Procure new vehicles as needed 	Design & Construction <ul style="list-style-type: none"> Design and construct new stops and priority treatments as needed Procure new vehicles as needed
	Operations <ul style="list-style-type: none"> Begin operations when operating funds are secured and budgeted Adjust alignment and schedule as needed to meet demand 	Operations <ul style="list-style-type: none"> Begin operations when operating funds are secured and budgeted Adjust alignment and schedule as needed to meet demand 	Operations <ul style="list-style-type: none"> Implement modifications Monitor route performance and modify schedule as needed to meet demand 	Operations <ul style="list-style-type: none"> Implement modifications Monitor route performance and modify schedule as needed to meet demand

Figure 1 - Phasing and Implementation Timeline - Development Considerations by Land Use and Service Type (cont.)



SERVICE TYPE	SITE DEVELOPMENT & AREAS SERVED			
	Eastern Urban Center (EUC)	Village 9	University Complex	Technology Park
General Plan Rapid/ BRT Service 			Planning <ul style="list-style-type: none"> • Work with SANDAG and MTS to include in programming and budget documents • Work with SANDAG and MTS to refine alignment, stops, and priority treatments 	Planning <ul style="list-style-type: none"> • Work with SANDAG and MTS to include in programming and budget documents • Work with SANDAG and MTS to refine alignment, stops, and priority treatments
			Design & Construction <ul style="list-style-type: none"> • Develop operating plan • Procure vehicles • Design and construct stations & priority treatments 	Design & Construction <ul style="list-style-type: none"> • Develop operating plan • Procure vehicles • Design and construct stations & priority treatments
			Operations <ul style="list-style-type: none"> • Begin operations when operating funds are secured and budgeted • Monitor route performance and modify schedule as needed to meet demand 	Operations <ul style="list-style-type: none"> • Begin operations when operating funds are secured and budgeted • Monitor route performance and modify schedule as needed to meet demand

Figure 1 - Phasing and Implementation Timeline - Development Considerations by Land Use and Service Type (cont.)

SERVICE TYPE	SITE DEVELOPMENT & AREAS SERVED			
	Eastern Urban Center (EUC)	Village 9	University Complex	Technology Park
Intersecting BRT 			Planning <ul style="list-style-type: none"> • Work with SANDAG and MTS to include in programming and budget documents • Work with SANDAG and MTS to refine alignment & stops 	Planning <ul style="list-style-type: none"> • Work with SANDAG and MTS to include in programming and budget documents • Work with SANDAG and MTS to refine alignment & stops
			Design & Construction <ul style="list-style-type: none"> • Develop operating plan • Procure vehicles • Design and construct stations & priority treatments 	Design & Construction <ul style="list-style-type: none"> • Develop operating plan • Procure vehicles • Design and construct stations & priority treatments
			Operations <ul style="list-style-type: none"> • Begin operations when operating funds are secured and budgeted • Monitor route performance and modify schedule as needed to meet demand 	Operations <ul style="list-style-type: none"> • Begin operations when operating funds are secured and budgeted • Monitor route performance and modify schedule as needed to meet demand